

## **APPARATUS FOR PROVIDING DATA DEPENDENT DETECTION IN A DATA READ CHANNEL**

### **ABSTRACT**

5           An apparatus for providing data dependent detection in a data read channel is  
disclosed. Parameters in a read channel are dynamically adjusted according to data  
dependent noise. For example, a comparison in an add-compare-select (ACS) unit of a  
Viterbi decoder may be adjusted or offset terms in error event filters may be biased to  
choose a Viterbi sequence with more transitions or to compensate for polarity dependent  
10   noise.